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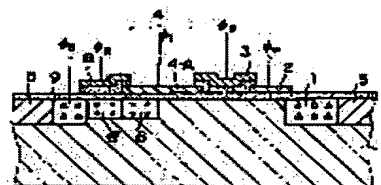
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## (54) CHARGE TRANSFER DEVICE

### (57)Abstract:

**PURPOSE:** To clear a signal from a signal charge transfer section instantaneously by forming a common control gate region and a drain region and shaping a common control gate electrode and a gate electrode by the same layer metal.

**CONSTITUTION:** First gate electrodes 4-A at each step of a signal charge transfer section 4 are connected to a drain region 9 through a common control gate electrode 8. The electrodes 4-A and a photo-gate section 2 are constituted by the same layer metallic film, and second gate electrodes 4-B, the electrode 8 and a shift gate section 3 are constituted by the same another layer metallic film. When picture element informations are read in succession and picture element informations after some picture element are not required, the whole charges stored in the signal charge transfer section 4 are thrown away into the drain region through the control gate when the applied voltage  $\phi_R$  of the control gate electrode 8 is elevated to some high level "H", and there is no charge in the signal charge transfer section 4. When a signal component by the next scanning is not also needed, unnecessary signals can be thrown away continuously when shift gate voltage  $\phi_S$  and control gate voltage  $\phi_R$  are brought previously to the state of a high level. Accordingly, signals from the signal charge transfer section can be cleared instantaneously.



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